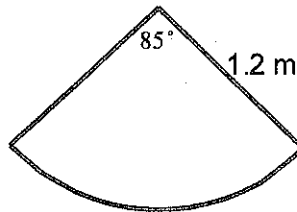
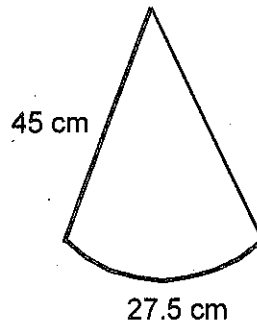
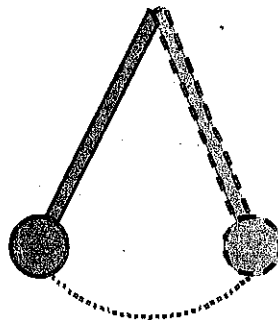


6. The curved part on an anchor is in the shape of an arc of a circle which has radius 1.2 metres.



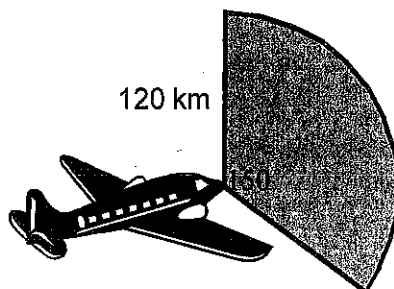
Calculate the length of this arc.

7. A pendulum is 45 centimetres long. When the pendulum swings it travels along the arc of a circle and covers a distance of 27.5 centimetres.



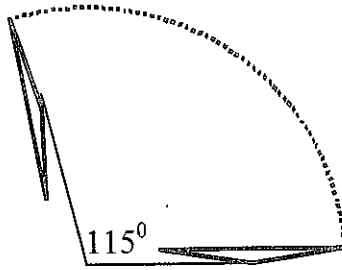
Calculate the size of the angle through which the pendulum travels.

8. The radar beam sent out by an aeroplane reaches a distance of 120 kilometres and covers an angle of  $150^\circ$ .



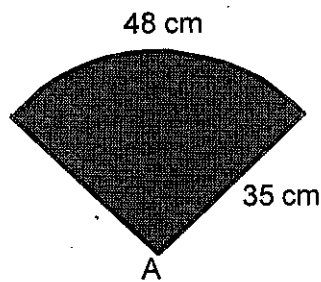
Calculate the area covered by the beam.

9. A windscreen wiper is 45 centimetres long. In one sweep it turns through an angle of  $115^\circ$ .



Calculate the distance it covers in one sweep.

10. A fan is in the shape of an arc of a circle with radius 35 centimetres.



Calculate the size of the angle at A.

11. The path traced by a golfer's club when he hits the ball is an arc of a circle. If the golf club is 95 centimetres long, calculate the distance travelled when the golfer swings his club.

